

SHINAGAWA

SHINDURAWEAR™ NBSiC
Nitride Bonded Silicon Carbide

SHINDURAWEAR™ NBSiC Nitride Bonded Silicon Carbide is characterized by excellent wear properties in severe industrial environments. It exhibits good resistance to high temperatures even in demanding abrasive applications and has better impact resistance than most silicon carbide grades. Due to its unique properties and ability to be cast into final shape, this cost-effective grade is widely used as a workhorse in coal-fired power plants and in mining for bulk material handling and protective linings, as well as for non-ferrous molten metal contact.

Physical Properties:

Property	Unit	Value
Density	g/cc lb/ft3	2.60-2.72 162-169
Apparent Porosity	%	13-16
C704 Abrasion Loss (volumetric)	cc	1.77
Modulus of Rupture 3 Point Loading	MPa psi	65.5 9500
Maximum safe operating temperature (Dependent upon atmosphere)	ºC ºF	1525 2777
Thermal Conductivity	W/mºK	18
Coefficient of Thermal Expansion @ 1200ºC	X10^-6/º C X10^-6/º F	4.9 2.7

All of the above statements, recommendations, suggestions and data concerning the subject material are based on laboratory and field results, and although we believe the same to be reliable, we expressly do not represent, warrant or guarantee the accuracy, completeness or reliability of same, of the material, or the result to be obtained from the use thereof. Nor do we warrant that any such use, either alone or in combination with other materials, shall be free of the rightful claim of any third party by way of **INFRINGEMENT** or the like, and **SHINAGAWA SPECIALTY CERAMICS AMERICAS, LLC DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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